

SAMSUNG ELECTRONICS CANADA, INC.

HEADQUARTERS

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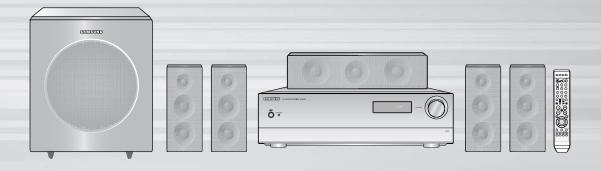
SERVICE DIVISION

55 Standish Court Mississauga,Ontario L5R 4B2 Canada 1-800-SAMSUNG (1-800-726-7864)



Digital Surround AV Receiver System HT-AS720S

Instruction Manual







CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. SERVICE PERSONNEL.

Note to CATV system installer :

This reminder is provided to call the CATV system installer 's attention to Section 820~40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.



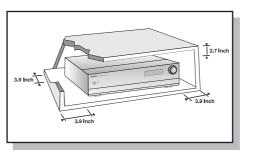
This symbol alerts you to important operating and maintenance instructions accompanying the unit.

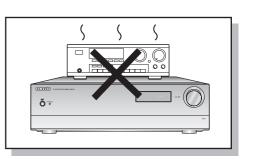
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION : TO PREVENT ELECTRIC SHOCK,MATCH WIDE BLADE OF PLUG TO WIDE SLOT,FULLY INSERT.

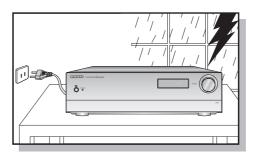


Precautions



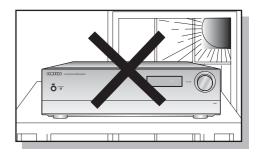


Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the amplifier. In order to disconnect the player completely from the power supply, remove the mains plug from the wall outlet, especially when left unused for a long period of time.



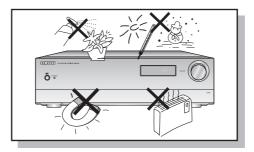
During thunderstorms, disconnect AC main plug from the wall outlet

Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources.

This could lead to overheating and malfunction of the unit.

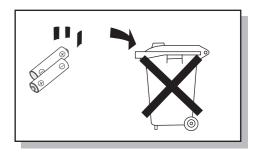


Protect the player from moisture(i.e. vases), and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.





Digital AV Receiver

This product is a pure digital AV receiver that performs digital signal processing to minimize signal distortion and loss.

O Dolby Pro Logic IIx

Dolby Pro Logic IIx is a new technology that provides discrete 7.1 channel out of 2 channel or multi channel sources. It also provides Music, Movie and Game modes.

O DTS 96/24

DTS is a surround format that implements 5.1 channel multi channel sound at 96KHz/24bit. In addition, it can also reproduce the matrix 6.1 of DTS 96/24 decorder signals.

ODOLBY DIGITAL EX

Adds a surround back channel for more spacious sound compared to regular 5.1 channel Dolby Digital.

OTS (Digital Theater Systems)

DTS plays back 5.1 channel sound with less compression than Dolby Digital for richer sound.

OTS-ES (Extended Surround)

DTS-ES adds an additional rear center surround channel for 6.1 channel sound. It is compatible with existing DTS Digital Sound formats.

ODTS TED:6

Reproduces digital PCM or analog stereo over 6.1 channels using a high precision DTS digital matrix.

SFE (Sound Field Effect) Using 24bit Audio Digital Signal Processing

Provides more realistic surround sound with normal stereo audio sources.

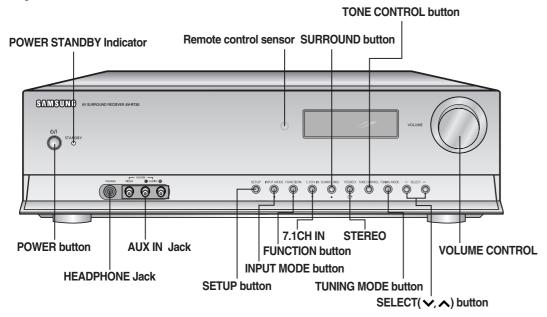
Anynet+ (HDMI-CEC) Function

Anynet+ is a function that can be used to operate this AV Receiver with a Samsung TV remote control, by connecting the receiver to a SAMSUNG TV using an HDMI Cable. (This function is available only in connection with Samsung TV and DVD player supporting Anynet+(HDMI-CEC).)

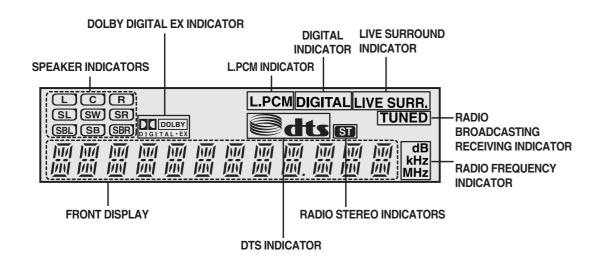
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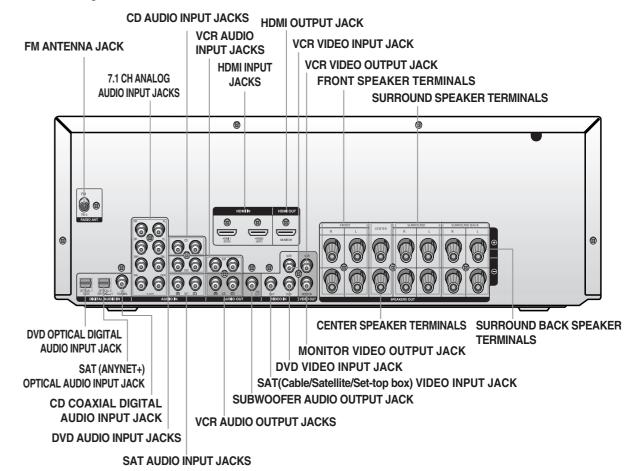
[Front panel]



[Display]



[Rear panel]



▶▶ Accessories **◄**◀

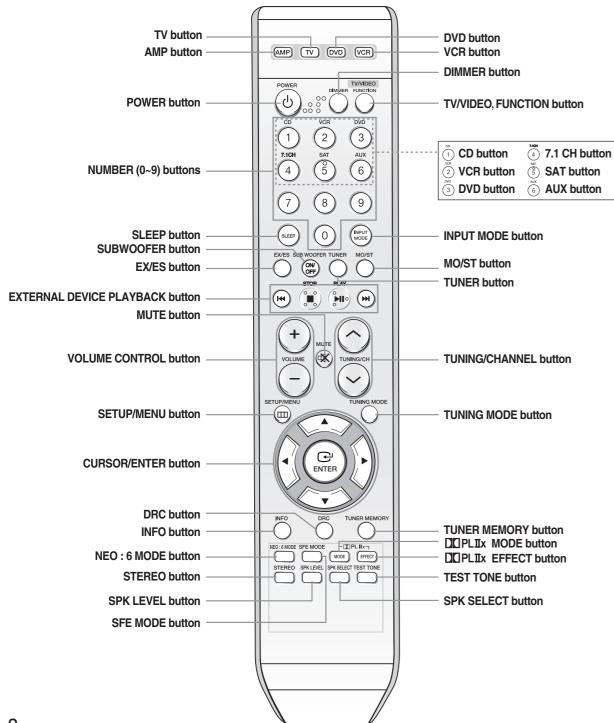






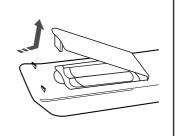
Description (Cont'd)

[Remote control]

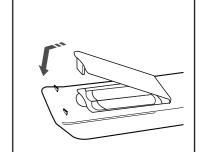


Insert remote control batteries

1 Remove the battery cover in the direction of the arrow.



Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



Replace the battery

cover.

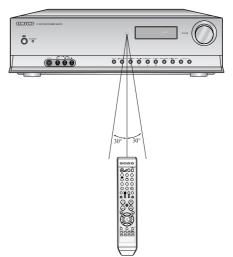


Follow these precautions to avoid leaking or cracking batteries:

- Place batteries in the remote control so they match the polarity:(+) to (+)and (-)to (-).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

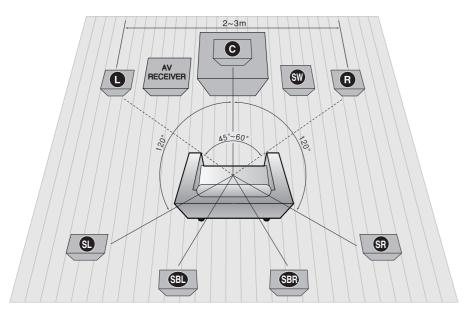
Range of operation of the remote control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



Connecting speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



- Position of AV Receiver
 - Place AV Receiver on a dedicated stand or rack.
- Front Speakers
 - Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
 - Place the speakers so that their tweeters will be at the same height as your ears.
 - Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speaker.
- Center speaker C
 - It is best to install it at the same height as the front speakers.
 - You can also install it directly over or under the TV.
- Subwoofer sw
 - The position of the subwoofer is not so critical. Place it anywhere you like.

Surround Speakers SL SR



- Place these speakers behind your listening position.
- · If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ears, facing slightly downward.
- * Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

Surround Back Speakers SBL SBR



- If you are using two rear center speakers, place them facing forward from behind the listening position.
- Place the surround back speaker about 70 cm to 1 m (2.3~3.3feet) above surround speakers, facing slightly downwards.

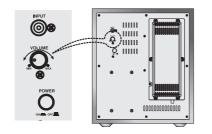


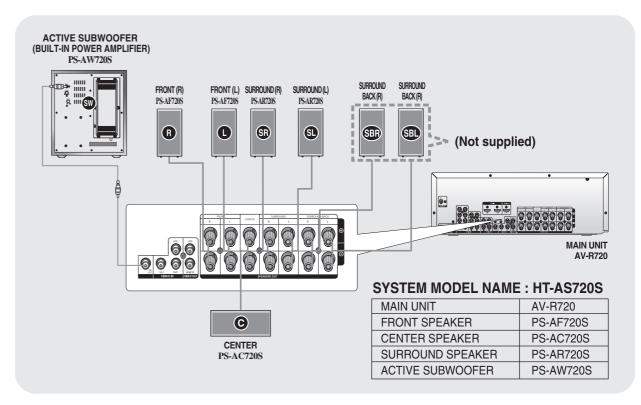
• When you attach the speakers to a wall, make sure to fasten them tightly so they do not fall off.

Subwoofer function

Active subwoofer with integrated 150W amplifier provides rich bass sound.

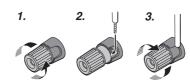
- Connect the SW OUT terminal of the amplifier (AV-R720) to the INPUT terminal of the subwoofer speaker.
- Press the POWER button on the rear side of the subwoofer to turn the power on.
- 3 Using the subwoofer's VOLUME control, you can set the desired bass level (See page 30 "Setting Speaker Level" to set the subwoofer level in the menu).





► CONNECTING SPEAKER WIRE

- 1. Loosen the knob by turning counterclockwise.
- 2. Insert the bare part of the wire into the hole in the side of each terminal.
- 3. Tighten the knob by turning clockwise to secure the wire.



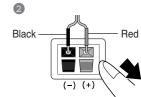
▶ Connecting the Speakers

- 1. Press down the terminal tab on the back of the speaker.
- 2. Insert the black wire into the black terminal (-) and the red wire into the red (+) terminal, and then release the tab.
- 3. Connect the connecting plugs to the back of the Home Theater.
- Make sure the colors of the speaker terminals match the colors of the connecting plugs.



• Keep the subwoofer speaker out of reach of children to prevent them from inserting their hands or objects into the duct (hole).





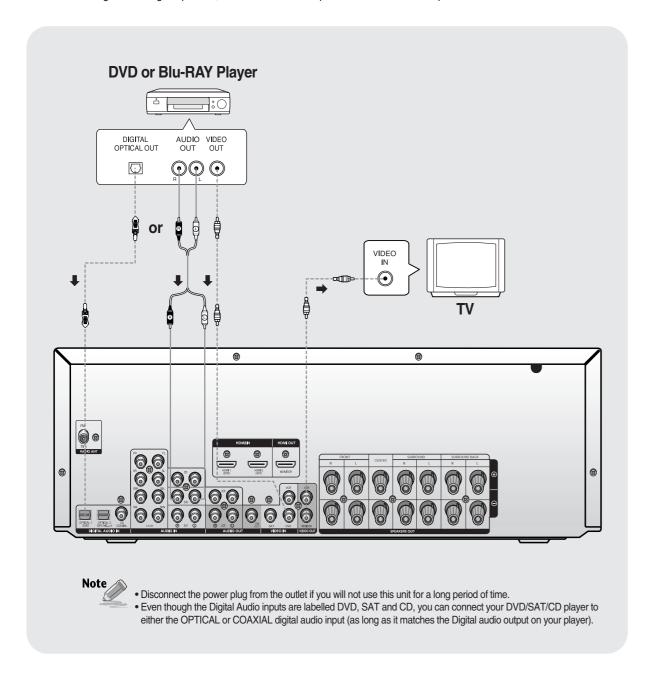


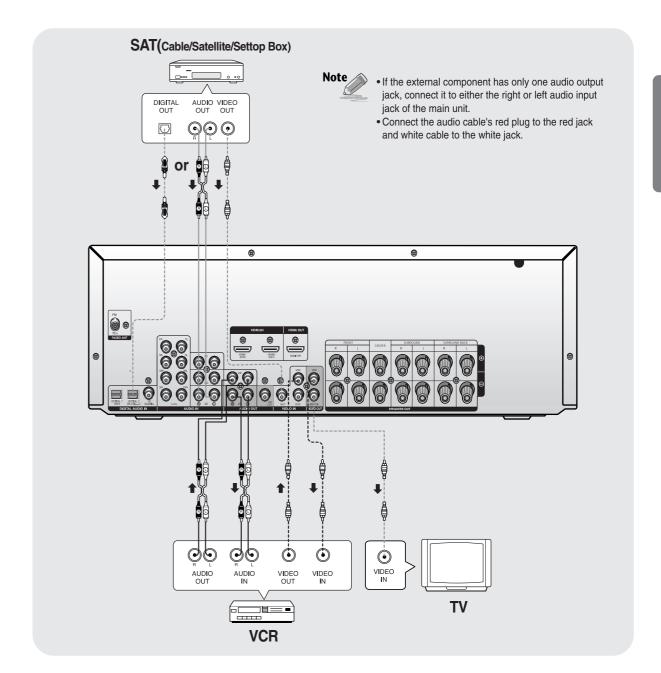
- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.
- This system is capable of reproducing 6.1/7.1 channel sound, however only 5.1 speakers are supplied.

Connecting external devices

Connecting video devices

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

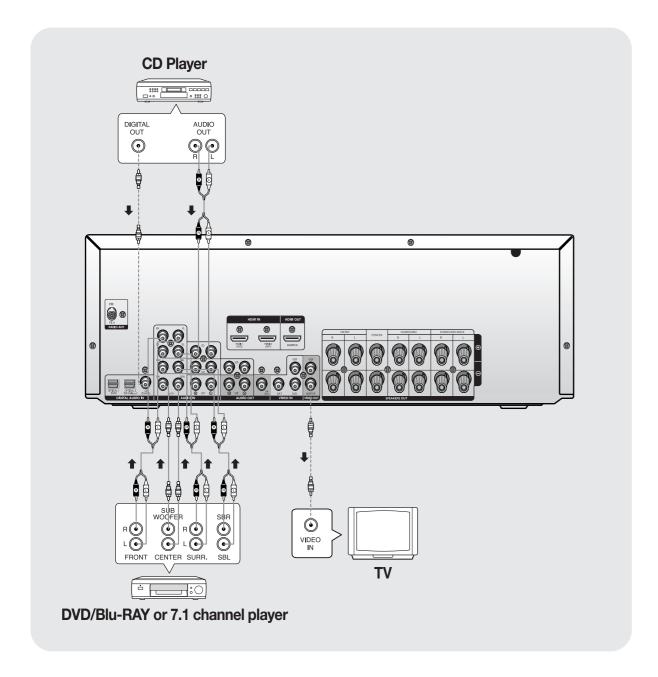




Connecting external devices (Cont'd)

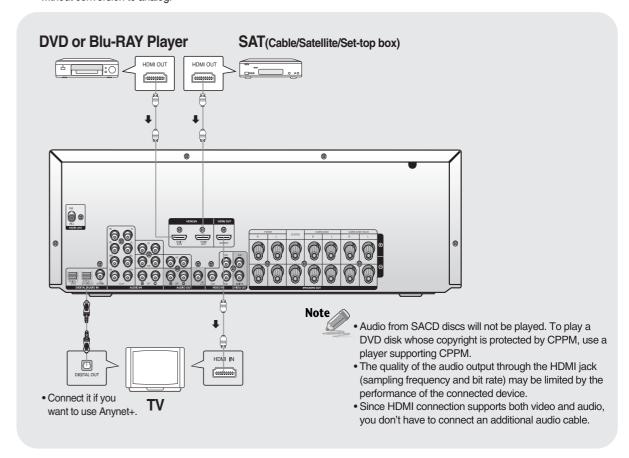
Connecting audio/7.1 channel devices

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Connecting external devices via HDMI

By connecting through the HDMI(High-Definition Multimedia Interface) interface, you can play back digital video and audio without conversion to analog.



High-bandwidth Digital Content Protection System (HDCP) support

To play digital contents through the HDMI connection, both of the connected external device and TV must support High-bandwidth Digital Content Protection System (HDCP). This product supports HDCP.

COMPATIBILITY WITH A TV SUPPORTING HDMI						
A TV with an HDMI jack.	Video/Audio					
A TV with a DVI-D jack (TV supporting HDCP)	Video					
A TV with a DVI-D jack (TV not supporting HDCP)	-					



- If you use an HDMI cable to connect a Samsung TV to the DVD Player, you can operate the AV receiver using the TV's remote control. This function is available only in connection with Samsung TV and DVD player supporting Anynet +(HDMI-CEC).
- Please check the Anynet+ logo. If your TV has an Anynet+ logo, then it supports the Anynet+ function.



Using Anynet+(HDMI-CEC)

- 1 Connect the AV receiver to a Samsung TV with an HDMI cable. (See page 15)
- 2 Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)
 - You can operate the AV receiver by using the TV remote control. (Available TV button: VOLUME (+),(-) button.)



DVDR 1 View TV DVDR 1 Operation Receiver: On Study Connect DVDR 2 Study S

If you select TV

Set the Anynet+(HDMI-CEC) function to <On> on your TV.

- Receiver: On: You can listen to audio through the AV Receiver.
- Receiver: Off: You can listen to audio through the TV.

If you select the DVD Player

Select **THEATER** to connector and set the option of each items below.

- View TV: If Anynet+(HDMI-CEC) set to on and you select View TV, the AV receiver will
 automatically switch to SAT OPTIC2(DIGITAL IN).
- Receiver: On: You can listen to audio through the AV receiver.
- Receiver: Off: You can listen to audio through the TV.

To turn off Anynet+

- 1 Press SETUP/MENU button, and then press the ENTER button.
- "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press ◀ ▶ button to select the "ANYNET+ MODE", and then press the ENTER button.
- 3 Press the ▲▼ button to set ANYNET+ to OFF.
- If you are using Anynet+, set ANYNET+ to ON and if not, set it to OFF.

To exit setup mode

Wait for about 5 seconds or press SETUP button.
 "SETUP OFF" appears on the display and Setup Mode is exited.



 When selecting View TV, you must have a digital optical cable connected from the TV to the AV receiver to listen to the TV sound through the AV receiver.



 When you are making Anynet+ connection, do not connect more than two AV receivers (Anynet+ installed). Otherwise, it can cause a malfunction.

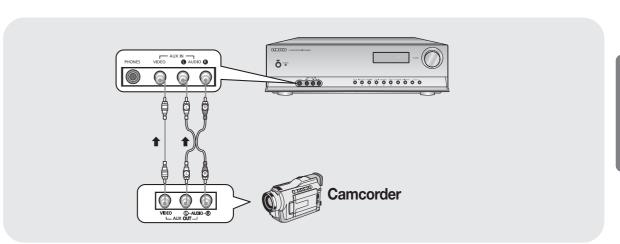
With Anynet+

You can operate this unit, power on your TV, or watch a movie by pressing the Play button on your Samsung TV's remote control.



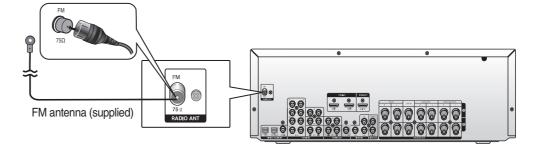
Connecting AUX components

You can connect external devices you use (camcorder, game console, mobile equipment, etc.) to the front of this unit for convenience.





Connecting the FM antenna



FM antenna connection

- 1. Connect the FM antenna supplied to the FM 75 Ω COAXIAL terminal as a temporary measure.
- 2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.



Before using the AV receiver



Selecting digital/analog Input



Turning On/Off

Connect the power plug to the outlet.

Press the **POWER** button of the remote control.

• This unit will be turned on or set to Standby mode.

Remote control functions

You can operate your AMP (this AV receiver), TV, DVD and VCR with this remote control.

See pages 41-44 for more details.

To select a function

Method 1

Press the **FUNCTION** button.

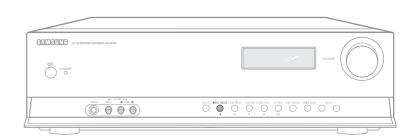
• Each time you press this button, FM → 7.1 MULTI CH → CD → DVD → SAT → VCR → AUX will be selected in turn.

Method 2

Press CD, VCR, DVD, 7.1CH, SAT, AUX or TUNER button.

· You can directly select the desired function.





REMOTE CONTROL

Press the **INPUT MODE** button.

• Each time you press this button, input mode changes as follows:

MAIN UNIT

Press the **INPUT MODE** button.

• Each time the button is pressed, input mode changes as follows:

For DVD/SAT function



For CD function





- You can change the digital input setting for DVD, SAT and CD functions in the "DIGITAL IN" setup.
- You can enjoy Dolby Digital or DTS if you connect the digital audio output jack of an external audio component to the optical or coaxial digital audio input jack on the main unit.

Setting the speaker mode

Signal outputs and frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.





REMOTE CONTROL

- Press SETUP/MENU button, and then press the ENTER button.
 "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **►** button to select the "SPK SETUP", and then press the **ENTER** button.
- 3 Press ► button to select the speaker you want.
 Each time you press this button, FRONT → CEN → SURR → S.BACK → SUB → CROVB will be selected in turn.
- **4** Press ▲▼ button to set the mode (LARGE, SMALL etc.) for the selected speaker.
- **5** Repeat steps 3-4 to set the mode for each speaker.
- To exit setup mode
- Wait for about 5 seconds or press SETUP/MENU button.
 "SETUP OFF" appears on the display and Setup Mode is exited.

Using the SPK SELECT button

- 1 Press SPK SELECT button to select the speaker you want.
- Each time you press this button, FRONT → CEN → SURR → S.BACK → SUB → CROVR will be selected in turn.
- 2 Press ▲▼ button to set the mode (LARGE, SMALL etc.) for the selected speaker.
- 3 Repeat steps 1-2 to set the mode for each speaker.

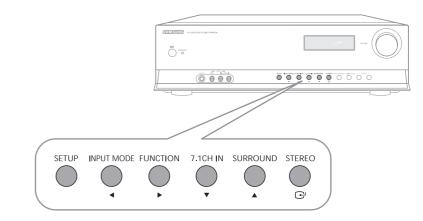
To turn the SUBWOOFER on or off.

Press **SUBWOOFER** button on the remote.

• Each time you press this button, SUB: YES, SUB: NO will be selected in turn.

Note

- If FRONT is set to LARGE, you can select YES or NO for SUB.
- If FRONT is set to SMALL, SUB is automatically set to YES. NO cannot be selected.



MAIN UNIT

- $\ensuremath{\mbox{\bf 1}}$ Press $\ensuremath{\mbox{\bf SETUP}}$ button, and then press the $\ensuremath{\mbox{\bf ENTER}}$ ($\ensuremath{\mbox{\mbox{\bf CP}}}$) button.
- "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press ◀ ▶ button to select the "SPK SETUP", and then press the ENTER (→) button.
- **3** Press **→** button to select the speaker you want.
 - Each time you press this button, FRONT → CEN → SURR → S.BACK → SUB → CROVR will be selected in turn.
- **4** Press ▲▼ button to set the mode (LARGE, SMALL etc.) for the selected speaker.
- **5** Repeat steps 3-4 to set the mode for each speaker.

To exit setup mode

• Wait for about 5 seconds or press **SETUP** button. "SETUP OFF" appears on the display and Setup Mode is exited.

Setting the Speaker

SPEAKER	Possible Settings	Default Setting
FRONT(Front)	LARGE,SMALL	SMALL
CEN(Center)	LARGE,SMALL,NONE	SMALL
SURR(Surround)	LARGE,SMALL,NONE	SMALL
S.BACK (Surround Back)	LARGE,SMALL,NONE	SMALL
SUB(Subwoofer)	YES,NO	YES
CROVR (Crossover Frequency)	60,80,100,120, 150,180,200(Hz)	150Hz

- LARGE: Select when using large speakers. You can listen to full range sound.
- SMALL : Select this when using small speakers
- NONE : Select when no speaker is used
- YES (subwoofer): Select when using the subwoofer speaker.
- NO (subwoofer): Select when not using the subwoofer speaker.
- CROVR: Select the crossover frequency for the best bass response in your room.



Setting the speaker listening distance

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and surround speakers.





Setting digital input

You can set the digital input for a DVD/SAT/CD player to either OPTICAL or COAXIAL to match the connections you've made .





- Press **SETUP/MENU** button, and then press the **ENTER** button. • "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **♦** button to select the "DIST SETUP", and then press the **ENTER** button.
- **3** Press **→** button to select the speaker you want. • Each time you press this button, F.L \rightarrow CEN \rightarrow F.R \rightarrow S.R \rightarrow SBR \rightarrow SBL \rightarrow
- **4** Press ▲▼ button to set the speaker distance.

 $S.L \rightarrow S.W$ will be selected in turn.

- For F.L, CEN, F.R, S.W, S.R, SBR, SBL, S.L Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of
- To exit setup mode
- Wait for about 5 seconds or press SETUP/MENU button. "SETUP OFF" appears on the display and Setup Mode is exited.
- Setting Speaker Distance

Set the distance from the speaker to listening position in intervals of 0.3m.

- F.L (front left): 0.9ft ~ 29.5ft
- CEN (center): 0.9ft ~ 29.5ft
- F.R (front right): 0.9ft ~ 29.5ft
- S.R (surround right): 0.9ft ~ 29.5ft
- SBR (surround back right): 0.9ft ~ 29.5ft SBL (surround back left): 0.9ft ~ 29.5ft
- S.L (surround left) : 0.9ft ~ 29.5ft
- SW (subwoofer): 0.9ft ~ 29.5ft

Note A

- If the listening position is beyond the range of the speaker distance setup, set the speaker distance to the maximum.
- The distance range of the overall speaker system is determined based on the F.L(front left) speaker distance from the listening position.
- Based on the max delay channel, the distance of the front speaker is 4.9ft(5ms) and the surround speaker can be set up to 14.7ft(15ms).





- Press **SETUP/MENU** button, and then press the **ENTER**
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **→** button to select the "DIGITAL IN", and then press **ENTER** button.
- **3** Press **◄** ▶ button to select the the CD, DVD or SAT
 - Each time you press this button, CD → DVD → SAT will be selected in turn.
- **4** Press ▲▼ button to set the digital input.
 - Each time you press this button, COAXIAL → OPTICAL2 → OPTICAL1 will be selected in turn.
- To exit setup mode
- Wait for about 5 seconds or press SETUP/MENU button. "SETUP OFF" appears on the display and Setup Mode is exited.

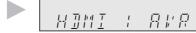


• You can select only one digital input for each function. Example) If you have selected COAXIAL for the CD function, you cannot select COAXIAL for the DVD or SAT function.

Function	Digital input
DVD	OPTICAL1
SAT	OPTICAL2
CD	COAXIAL







Before using!

- Press the INPUT MODE button to select HDMI1 or HDMI2. (see page 21)
- If you select Digital (Optical, Coaxial) or Analog, the HDMI audio setting will be deactivated.
- 1 Press SETUP/MENU button, and then press the ENTER button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **→** button to select the "HDMI AUDIO", and then press the **ENTER** button.
 - "HDMI: AVR" appears on the display.
- **3** Press ▲▼ button to set the HDMI audio.
 - \bullet Each time you press this button, HDMI : AVR \rightarrow HDMI : TV will be selected in turn.
- To exit setup mode
- Wait for about 5 seconds or press **SETUP/MENU** button. "SETUP OFF" appears on the display and Setup Mode is exited.

Setting HDMI AUDIO

- AVR : Audio is played on this product.
- \bullet TV : Audio is played on a TV connected to the HDMI OUT jack and no audio is played on this product.



- HDMI AUDIO setting is available only when the HDMI output is connected to a TV.
- If you do not hear sound from the TV, should change the HDMI audio output setting for your DVD PLAYER or SAT to PCM.



Setting DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night. DRC compresses the audio to make the loudest sounds quieter and the quietest sounds louder.





- 1 Press SETUP/MENU button, and then press the ENTER button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **♦** button to select the "DRC SETUP", and then press the **ENTER** button.
 - "DRC:STD" appears on the display.
- **3** Press ▲▼ button to set the DRC.
 - Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.
- To exit setup mode
- Wait for about 5 seconds or press **SETUP/MENU** button. "SETUP OFF" appears on the display and Setup Mode is exited.

Using the DRC button

Press **DRC** button.

 Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

Setting DRC

- STD : Sets DRC effect to standard.
- MAX : Sets DRC effect to maximum.
- MIN: Sets DRC effect to minimum.



To automatically output test tone



- 1 Press SETUP/MENU button, and then press the ENTER button.
 - "SETUP MODE" appears on the display and the unit goes into Setup Mode.
- **2** Press **♦** button to select the "TEST-T AUTO", and then press the **ENTER** button.
 - Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → SBR → SBL → S.L → S.W .
 - During test signal output, press ▲▼ button to adjust the individual speaker output level from -10 to +10 dB by 1 step.
- To stop test tone
- Press **SETUP/MENU** button once time. "SETUP OFF" appears on the display and test tone stops.

Using the Test Tone button

Press **TEST TONE** button.

- Test signal will be automatically output as follows; F.L \rightarrow CEN \rightarrow F.R \rightarrow S.R \rightarrow SBR \rightarrow SBL \rightarrow S.L \rightarrow S.W.
- During test tone output, press ▲▼ button to adjust the speaker output level from -10 to +10 dB by 1 step.



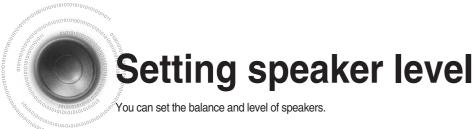
To Manually Output Test Tone



- 1 Press SETUP/MENU button, and then press the ENTER button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press ◀ ▶ button to select the "TEST-T MANU", and then press the ENTER button.
- **3** Press **→** button to select the speaker you want..
 - Each time you press \blacktriangleleft ▶ button, F.L → CEN → F.R → S.R → SBR → SBL → S.L → S.W will be selected in turn.
- **4** Press ▲▼ button to set the test tone as you want.
 - You can adjust the speaker output level from -10 to +10dB by 1 step.
 - The sound gets quieter at -10dB and louder at +10dB.
- To stop test tone
- Press SETUP/MENU button once time.
 "SETUP OFF" appears on the display and test tone stops.

Test Tone Output

- F.L (front left): -10 ~ +10dB
- CEN (center) : -10 ~ +10dB
- F.R (front right) : -10 ~ +10dB
- S.R (surround right): -10 ~ +10dB
- SBR (surround back right) : -10 ~ +10dB
- SBL (surround back left) : -10 ~ +10dB
- S.L (surround left) : -10 ~ +10dB
- S.W (subwoofer) : -10 ~ +10dB







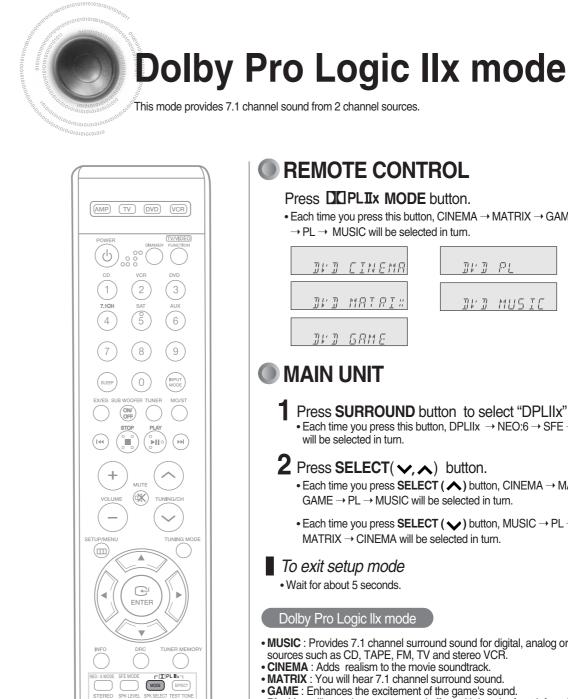
- Press **SETUP/MENU** button, and then press the **ENTER** button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **♦** button to select the "LEVEL SETUP", and then press the **ENTER** button.
- **3** Press **→** button to select the speaker you want.
 - Each time you press \blacktriangleleft ▶ button, F.L \rightarrow CEN \rightarrow F.R \rightarrow S.R \rightarrow SBR \rightarrow SBL \rightarrow S.L \rightarrow S.W will be selected in turn.
- **4** Press ▲▼ button to set the speaker mode.
 - You can adjust it from -10 to +10dB by 1 step.
 - The sound gets guieter at -10dB and louder at +10dB.
- To exit setup mode
 - Wait for about 5 seconds or press SETUP/MENU button. "SETUP OFF" appears on the display and Setup Mode is exited.

Using the SPK LEVEL button

- 1 Press **SPK LEVEL** button to select the speaker you want.
- Each time you press this button, F.L \rightarrow CEN \rightarrow F.R \rightarrow S.R \rightarrow SBR \rightarrow SBL \rightarrow S.L → S.W → SPK LVL OFF will be selected in turn.
- 2 Press ▲▼ button to set the speaker level you want.
- You can adjust it from -10 to +10dB by 1 step.
- The sound gets quieter at -10dB and louder at +10dB.

Setting Speaker Level

- F.L (front left): -10 ~ +10dB
- CEN (center) : -10 ~ +10dB
- F.R (front right) : -10 ~ +10dB
- S.R (surround right) : -10 ~ +10dB
- SBR (surround back right): -10 ~ +10dB
- SBL (surround back left) : -10 ~ +10dB
- S.L (surround left): -10 ~ +10dB
- S.W (subwoofer) : -10 ~ +10dB





Press DOPLIIX MODE button.

• Each time you press this button, CINEMA → MATRIX → GAME → PL → MUSIC will be selected in turn.

III PL JrJ CINEMA BUB MATRIX INI MUSIC

MAIN UNIT

- Press SURROUND button to select "DPLIIx" mode.
 - Each time you press this button, DPLIIx → NEO:6 → SFE → STEREO will be selected in turn.
- **2** Press **SELECT**(**⋄**, **⋄**) button.
 - Each time you press SELECT (♠) button, CINEMA → MATRIX → GAME → PL → MUSIC will be selected in turn.
 - Each time you press **SELECT (✓)** button, MUSIC → PL → GAME → MATRIX → CINEMA will be selected in turn.
- To exit setup mode
- Wait for about 5 seconds.

Dolby Pro Logic IIx mode

- MUSIC: Provides 7.1 channel surround sound for digital, analog or existing stereo sources such as CD, TAPE, FM, TV and stereo VCR.
- CINEMA: Adds realism to the movie soundtrack.
- MATRIX: You will hear 7.1 channel surround sound.
- GAME: Enhances the excitement of the game's sound.
- PL: You will experience a surround effect with just the front left and right speakers.



- You cannot use Dolby Pro Logic IIx mode for multi channel signals such as Dolby Digital and DTS.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Sound will not be output from the surround back speaker if the PCM audio signal



Setting Dolby Pro Logic IIx effect

This function works only in Dolby PRO LOGIC IIx MUSIC Mode.



Setting NEO:6 mode

You can play back 2 channel sound over 6.1 channels when enjoying music or a movie.



- 1 Press SETUP/MENU button, and then press the ENTER button.
- "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **►** button to select the "□□ PLIIx MODE", and then press the **ENTER** button.
- 3 Press ◆ ▶ button.

 Each time you press this button,
 C-WIDTH → DIMENSION →
 PANORAMA will be selected in turn.
- JIMENSION: O

4 Press ▲▼ button to set the Dolby Pro Logic IIx effect you want.

| |PANORAMA: OFF

To exit setup mode

• Wait for about 5 seconds or press **SETUP/MENU** button. "SETUP OFF" appears on the display and Setup Mode is exited.

Using the DIPLIX EFFECT button

- 1 Press □□□ □ πx MODE button to select 'MUSIC' Mode.
- 2 Press DIP IIx EFFECT button.
- Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 3 Press ▲▼ button to select Dolby Pro Logic IIx effect you want.
- . C-WIDTH: You can set from 0 to 7.
- DIMENSION: You can set from -7 to +7.
- PANORAMA: You can set it ON or OFF.

Dolby Pro Logic IIx effect

- **C-WIDTH**: This sets the width of the center image. The higher the setting, the less sound comes from the center speaker.
- **DIMENSION**: Incrementally adjusts the sound field (DSP) from the front or surround.
- PANORAMA: This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.



REMOTE CONTROL

Press **NEO:6 MODE** button.

• Each time you press this button, MUSIC → CINEMA will be selected in turn.

MAIN UNIT

- Press **SURROUND** button briefly to select "NEO:6" mode.
 - Each time you press this button, DPLIIx → NEO:6 → SFE → STEREO will be selected in turn.
- 2 Press SELECT(➤, ▲) button.
 - Each time you press this button, MUSIC → CINEMA will be selected in turn.

To set the height of the center sound image

If your TV (or screen) is installed high on a wall, you can raise the center sound image of the front and center speakers to compensate.

- 1 Press SETUP/MENU button, and then press the ENTER button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- **2** Press **►** button to select the "NEO:6 MODE", and then press the **ENTER** button.
 - "CEN -- IMG: 2" appears on the display.



CEN-IMB: 2

- **3** Press ▲▼ button to set the sound image you want.
 - You can set the sound image from 0 to 5.
- This parameter adjusts the height of the center image through the front and center speakers. "0" is the lowest while "5" is the highest.

To exit setup mode

Wait for about 5 seconds or press SETUP/MENU button.
 "SETUP OFF" appears on the display and Setup Mode is exited.

NEO: 6 Mode

This mode decodes 2 channel signals to a high precision digital matrix decoder. for 6.1 channel sound.

- MUSIC: NEO:6 MUSIC mode is optimized for music playback
- CINEMA: NEO:6 CINEMA mode is optimized for movie playback.

Note

- NEO:6 mode cannot be used with DTS and Dolby Digital multi channel signals.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.

Setting EX/ES mode

When surround back speakers are connected, you can listen to 6.1 or 7.1 multi-channel sound using the built-in Dolby Digital Surround EX or DTS ES decoder. This function works when a Dolby Digital or DTS source (such as a DVD player) is input, and does not work with L.PCM and Dolby Digital 2 channel sources.



- Press **SETUP/MENU** button, and then press the **ENTER** button. • "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press ◆▶ button to select the "EX/ES SETUP", and then press the **ENTER** button.
 - "EX/ES: AUTO" appears on the display.
- **3** Press ▲▼ button to set the EX/ES you want.

• Each time you press this button, EX/ES : AUTO → EX/ES : ON → EX/ES: OFF will be selected in turn.

E##E5:RUTO E#7851 ON E#/ES! OFF

To exit setup mode

• Wait for about 5 seconds or press SETUP/MENU button. "SETUP OFF" appears on the display and Setup Mode is exited.

Using the EX/ES button

Press **EX/ES** button.

- Each time you press this button, EX/ES: AUTO → EX/ES: ON → EX/ES: OFF will be selected in turn.
- The EX/ES button on the remote control is enabled only if the input source is of Dolby Digital or DTS.

EX/ES Mode

- AUTO: If the unit receives an audio signal that it can recognize, it will select an optimal decoder for playback in 6.1/7.1 channel. If the amplifier does not recognize the audio signal, it will not play in 6.1/7.1 channel automatically.
- ON: Dolby Digital or DTS signal will be played in 6.1 / 7.1 channel using Dolby Digital Surround EX / DTS ES decoder.
- OFF: Dolby Digital Surround EX / DTS ES decoder will not be used for playback.

DTS-ES (Discrete 6.1. Matrix 6.1)

Movie soundtracks encoded with Dolby Digital EX will play audio over the surround back channels also.

Note 🗥

Dolby Digital - EX

- · You cannot use Dolby Digital-EX in the system without Surround Back speakers connected.
- EX/ES Mode must be set to On when playing back discs encoded with 6.1 channel Dolby Digital-EX.

 • Some discs encoded with Dolby Digital-EX do not contain
- an identification signal. In this case, set EX/ES to ON.

A surround back channel is added to the DTS 5.1 channel system, improving the sense of sound directionality and space. A built-in DTS-ES decoder has been equipped with this system that supports discs encoded with DTS-ES Direct and DTS-ES Matrix.

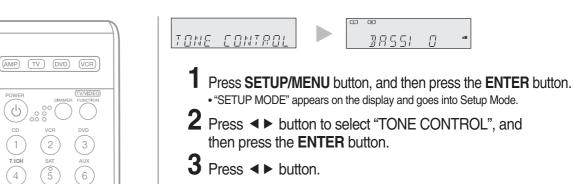


Note A • You cannot use DTS-ES without surround back speakers connected.



Setting Tone Control

This function allows setting up the tone quality of the front speakers.



ullet Each time you press this button, BASS \to TREBLE \to TONE : OFF will be

78551 D

- If it is set to TONE: OFF, the Tone Control function will be disabled.
- **4** Press ▲▼ button to set the tone control you want.
 - You can adjust it from -6 to +6dB by 1 step.
 - The sound gets smaller at -6dB and louder at +6dB.
- To exit setup mode
 - Wait for about 5 seconds or press SETUP/MENU button. "SETUP OFF" appears on the display and Setup Mode is exited.

Note A

NEO:6 MODE SFE MODE CITY MODE SFECT

Tone Control function is available only in the Stereo mode.

SFE mode

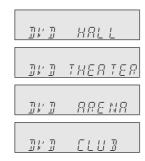
The SFE (Sound Field Effect) function uses 7 different DSP sound field effects to digitally simulate actual music environments such as concert halls or cinemas.



REMOTE CONTROL

Press **SFE MODE** button.

 Each time you press this button, HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH will be selected in turn.





MAIN UNIT

- 1 Press **SURROUND** button to select 'SFE' Mode.
 - Each time you press this button, DPLIIx \rightarrow NEO:6 \rightarrow SFE \rightarrow STEREO will be selected in turn.
- **2** Press **SELECT**(**▼**, **∧**) button.
 - Each time you press Select (▼, ♠) button, HALL ←> THEATER ←>
 ARENA ←> CLUB ←> DOME ←> STADIUM ←> CHURCH will be selected in furn
- To exit setup mode
- Wait for about 5 seconds.



Stereo mode

You can select this mode when listening to sound through the front left and right speakers and subwoofer.



REMOTE CONTROL

Press STEREO button.

 "STEREO" appears in the display and Stereo Mode is selected. JEJ STERED

MAIN UNIT

Press **SURROUND** button to select 'STEREO'.

- Each time you press this button, DPLIIx \rightarrow NEO:6 \rightarrow SFE \rightarrow STEREO will be selected in turn.
- If you press the STEREO button on the player, it will switch to STEREO mode.

To exit setup mode

Wait for about 5 seconds.

Surround Mode and Input Signal Chart

o = active, -= inactive

Surround	Input Signal	Decoding	0			ann		'	lay Information
Mode	input oignar Boodaing	Decoung	L/R	С	SL SR	SBL SBR	SubW	Display Signal Format	Channel Status
	Dolby D Surr. EX	Dolby Digital 5.1	0	0	0	0	0	DO DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
DOLBY (MUSIC.	Dolby D (5.1ch)	Dolby Digital 5.1	0	0	0	-	0	DO DIGITAL	L, C, R, SL, SR, SW
CINEMA,	Dolby D (2ch)	Pro Logic II x	0	0	0	0	0	DO DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
MATRIX, GAME.	Dolby D (2ch Surr)	Pro Logic II x	0	0	0	0	0	DO DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
PRO LOGIC)	L.PCM (Audio)	Pro Logic II x	0	0	0	0	0	L.PCM	L, C, R, SL, SR, SBL, SBR, SW
	Analog	Pro Logic II x	0	0	0	0	0	ANALOG	L, C, R, SL, SR, SBL, SBR, SW
	L.PCM (Audio)	Neo:6	0	0	0	0	0	L.PCM	L, C, R, SL, SR, SBL, SBR, SW
NEO:6 (MUSIC,	Analog	Neo:6	0	0	0	0	0	ANALOG	L, C, R, SL, SR, SBL, SBR, SW
CINEMA)	Dolby D (2ch)	Neo:6	0	0	0	0	0	IXI DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
	Dolby D (2ch Surr)	Neo:6	0	0	0	0	0	DO DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
	Dolby D (2ch)	DD+SFE	0	0	0	-	0	DI DIGITAL	L, C, R, SL, SR, SW
SFE	Dolby D (2ch Surr)	DD+SFE	0	0	0	-	0	IXI DIGITAL	L, C, R, SL, SR, SW
SFE	L.PCM (Audio)	SFE	0	0	0	-	0	L.PCM	L, C, R, SL, SR, SW
	Analog	SFE	0	0	0	-	0	ANALOG	L, C, R, SL, SR, SW
	Dolby D Surr. EX	Dolby Digital EX	0	0	0	0	0	DI DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
EV/E0	Dolby D (5.1ch)	Dolby Digital EX	0	0	0	0	0	DI DIGITAL	L, C, R, SL, SR, SBL, SBR, SW
EX/ES	DTS-ES	DTS-ES	0	0	0	0	0	dts, ES	L, C, R, SL, SR, SBL, SBR, SW
	DTS (5.1ch)	DTS-ES	0	0	0	0	0	dts	L, C, R, SL, SR, SBL, SBR, SW
	Dolby D (2ch)	Stereo	0	-	-	-	0	IXI DIGITAL	L, R, SW
	Dolby D (2ch Surr)	Stereo	0	-	-	-	0	IXI DIGITAL	L, R, SW
STEREO	L.PCM (Audio)	Stereo	0	-	-	-	0	L.PCM	L, R, SW
	L.PCM 96KHz	Stereo	0	-	-	-	0	L.PCM	L, R, SW
	Analog	Stereo	0	-	-	-	0	ANALOG	L, R, SW

L/R: front speaker (left/right) C: center speaker SL/SR: surround speaker (left/right) SBL/SBR: surround back speaker (left/right) SW: subwoofer



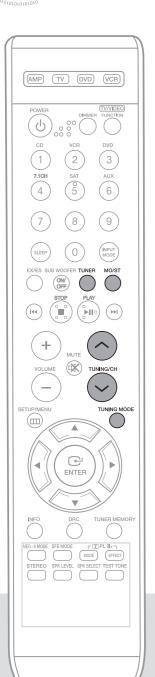
- Channel status displays are dependent on the speaker configuration.
- SFE mode works with 2-ch signals.

Listening to radio

You can listen to the chosen band (FM) by using either automatic or manual tuning.







REMOTE CONTROL

- Press **TUNER** button.
- **2** Selected frequency.
 - Automatic tuning 1:
 - 1) Press TUNING MODE button to select PRESET.
 - 2) Press TUNING/CH (V, A) button to select the preset frequency.
 - Automatic tuning 2:
 - 1) Press TUNING MODE button to select MANUAL
 - 2) Press and hold **TUNING/CH (, ^)** button to automatically tune in frequency.
 - Manual tuning :
 - 1) Press TUNING MODE button to select MANUAL.
 - 2) Press TUNING/CH (, ,) button briefly to increase or decrease the frequency step by step.

MAIN UNIT

- Press **FUNCTION** button to select FM.
- **2** Select the frequency.
 - Automatic tuning 1:
 - 1) Press TUNING MODE button to select PRESET.
 - 2) Press TUNING/CH (V, A) button to select the preset frequency.
 - Automatic tuning 2:
 - 1) Press TUNING MODE button to select MANUAL
 - 2) Press and hold **TUNING/CH (, ,)** button to automatically tune in frequency.
 - Manual tuning :
 - 1) Press TUNING MODE button to select MANUAL.
 - 2) Press TUNING/CH (V, A) button briefly to increase or decrease the frequency step by step.

To Listen to mono/stereo

Press MO/ST button on the remote.

- Each time you press this button, STEREO → MONO will be selected in turn.
- If you select MONO in an area with weak reception, it will help to reduce noise.
- This function works only with the Remote Control.



E.g.: Setting station FM 89.10 in preset 2.

- Press **TUNER** button.
- **?** Press TUNING MODE button to select MANUAL and then press TUNING/CH(∨, ∧) button to select 89.10.



- Refer to step 2, page 38, to tune in automatically and manually.
- **3** Press **TUNER MEMORY** button. • Tuner number will blink on the display.



4 Press TUNING/CH(∨, ∧) button to select preset 2.



• You can select from presets 1 to 30.

5 Press **TUNER MEMORY** button.



- Tuner number will disappear and station 89.10 will be saved in preset 2.
- **6** To preset other stations, repeat steps 2 to 5.
- To Listen to Preset Station
 - Press TUNING MODE button of the remote control to select the PRESET and press TUNING/CH (V,) button.

MISCELLANEOUS

Convenient functions



Sleep timer function

You can set the time that this unit will shut itself off.

Press the **SLEEP** button.

- SLEEP : OFF \rightarrow 15 \rightarrow 30 \rightarrow 45 \rightarrow 60 \rightarrow 90 \rightarrow 120 M (MIN) will be selected in turn.
- To check sleep timer
 Press the **SLEEP** button.
 - The remaining time before this unit will shut itself off is shown on the display.
 - Pressing the button again changes the sleep time from what you set previously.
- To cancel sleep timer
- Press SLEEP button until "SLEEP: OFF" appears on the display.

Mute function

This function is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

- MUTE appears on the display.
- To output sound again
 Press the **MUTE** button again.
- MUTE will disappear and sound will output.

Note

 SLEEP, Mute and the Adjust Display functions can only be operated with the remote control.



Reset function

REMOTE CONTROL

- 1 Press the **MUTE** button.
 - MUTE appears on the display.
- **2** Press "**0**" button five times and then press the **ENTER** button.
 - "INITIAL: NO" appears on the display.
- **3** Press ▲▼ buttons to select "YES".
 - The unit will turn off after 5 seconds.

MAIN UNIT

- 1 Turn off the power and hold the **SELECT(^)** button for longer than 5 seconds.
 - POWER STANDBY indicator will flash.

Caution!

- Using the RESET function will erase all stored settings.
- Do not use this unless necessary.

MISCELLANEOUS

Convenient functions (cont'd)



Operating your TV with the remote control



Adjust the display

You can adjust the brightness of the display.

Press the **DIMMER** button.

Each time you press this, the brightness changes as follows: DARK → BRIGHT.

Using headphones

Use headphones (not supplied) for private listening pleasure.

Connect the headphones to the headphone jack and listen to music.

Note Do not turn the volume up too high when you use headphones as It may damage your hearing



- Press **POWER** button to turn on the TV.
- Press TV button to set the remote to TV mode.
- Point the remote control toward the TV.
- While holding down **POWER** button, enter the code corresponding to your brand of TV.
 - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
 - If the code matches the TV's code, the TV will be turned off.
- If TV is turned on or off when you press the power button of the remote control, the setting is completed.
 - You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).



- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.



Operating your TV with the remote control (cont'd)

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Operating your DVD or VCR with the remote control

TV Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL (M.WARDS)	056, 057, 058	LUXMAN	018	SYLVANIA	018,040,048,054,059,
AMARK	001,015	LXI(SEARS)	019, 054, 056, 059, 060,		060,062
ANAM	001, 002, 003, 004,005,		062, 063, 065, 071	SYMPHONIC	061,095,096
	006, 007, 008, 009, 010,	MAGNAVOX	015, 017, 018, 048, 054,	TATUNG	006
	011, 012, 013, 014		059, 060, 062, 072, 089	TECHWOOD	018
AOC	001, 018, 040, 048	MARANTZ	040,054	TEKNIKA	003, 015, 018, 025
BELL&HOWELL(M.WARDS)	057, 058, 081	MATSUI	054	TMK	018,040
BROCSONIC	059,060	MGA	018,040	TOSHIBA	019,057,063,071,101
CANDLE	018	MITSUBISHI/MGA	018, 040, 054, 059, 060,		107, 109, 110, 111, 113
CETRONIC	003		075, 101	VIDTECH	018
CITIZEN	003, 018, 025	MTC	018	VIDECH	059,060,069
CINEMA	097	NEC	018, 019, 020, 040, 059,	WARDS	015,017,018,040,048,
CLASSIC	003		060		054,060,064
CONCERTO	018	NIKEI	003	YAMAHA	018
CONTEC	046	ONKING	003	YORK	040
CORONADO	015	ONWA	003	YUPITERU	003
CRAIG	003, 005, 061, 082, 083,	PANASONIC	006,007,008,009,054,	ZENITH	058.079
	084		066,067,073,074	ZONDA	001
CROSLEX	062	PENNEY	018	DONGYANG	003,054
CROWN	003	PHILCO	003,015,017,018,048,	LOWE	054
CURTISMATHES	059,061,063	- 1111200	054,059,062,069,090	FINLUX	054, 109, 114
CXC	003,001,000	PHILIPS	015,017,018,040,048	YOKO	054, 103, 114
DAEWOO	002,003,004,015,016,		054,062,072,112,114,	LOEWEOPTA	054.114
DALVVOO	017,018,019,020,021,		117,118	PHONOLA	054, 112, 114
	022, 023, 024, 025, 026,	PIONEER	063,066,080,091	RADIOLA	054,112
	027, 028, 029, 030, 032,	PORTLAND	015,018,059	SCHNEIDER	054, 112
	034, 035, 036, 040, 048,	PROTON	040	AKAI	103
	059,090,099,100	QUASAR	006,066,067	GRUNDIG	108, 109, 113, 119, 120,
DAYTRON	040	RADIOSHACK	017,048,056,060,061,	GNUNDIG	121
DYNASTY		HADIO SHACK		BLAUPUNKT	108
EMERSON	003	RCA/PROSCAN	075	SIEMENS	
EMERSON	003, 015, 040, 046, 059,	RCA/PROSCAN	018,059,067,076,077	CGE	108
	061, 064, 082, 083, 084,	DEALIOTIO	078,092,093,094		113
F101 1FD	085	REALISTIC	003,019	IMPERIAL	113
FISHER	019,065,103	SAMPO	040	MIVAR	113
FUNAI	003	SAMSUNG	000,015,016,017,040,	SABA	114
FUTURETECH	003		043, 046, 047, 048, 049,	BANG&OLUFSEN	114
GENERAL ELECTRIC (GE)	006, 040, 056, 059, 066,	211112	054, 059, 060, 098	BRIONVEGA	114
	067,068	SANYO	019,061,065,101,102,	FORMENTI	114
HALLMARK	040		103, 104	METZ	114
HITACHI	015, 018, 050, 059, 069	SCOTT	003,040,060,061	WEGA	114
NKEL	045	SEARS	015,018,019	RADIOMARELLI	114
JC PENNY	056, 059, 067, 086	SHARP	015,057,064,101,105,	SINGER	114
JVC	070		106,115	SINUDYNE	114
KTV	059,061,087,088	SIGNATURE 2000 (M.WARDS)	057,058	TELEFUNKEN	116
KEC	003,015,040	SONY	050, 051, 052, 053, 055,		
KMC	015		101		
LG (GOLDSTAR)	001,015,016,017,037,	SOUNDESIGN	003,040		
	038, 039, 040, 041, 042,	SPECTRICON	001		
	043, 044, 054, 086	SSS	018		



- Press **POWER** button to turn on the DVD (VCR).
- Press **DVD** button to set the remote to DVD mode.
 - If you operate VCR, press VCR button to set the remote to VCR mode.
- Point the remote control toward the DVD (VCR).
- While holding down **POWER** button, enter the code corresponding to your brand of DVD (VCR).
 - If there is more than one code listed for your DVD (VCR) in the table, enter one at a time to determine which code works.
 - If the code matches the DVD (VCR)'s code, the DVD (VCR) will be turned off.
- If DVD (VCR) is turned on or off when you press the power button of the remote controller, the setting is completed.
 - You can use DVD (VCR) POWER, VOLUME, PLAY, PAUSE, STOP, SKIP, MENU and Numeric button (0~9).



- The remote control may not work on some brands of DVD (VCR).
 Also, some operations may not be possible depending on your brand of DVD (VCR).
- The remote control will work with Samsung DVD (VCR) by default.



Operating your DVD or VCR with the remote control (cont'd)

VCR Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL (M.WARDS)	043, 106	MEI	001,033	TASHIRO	050
AWIA	044, 045, 046	MEMOREX	001,025,033,054,091,	TATUNG	047,052,092
AKAI	088, 089, 090		100	TEAC	044,047,052,092
ANAM	001, 002, 003, 004, 005,	MINOLTA	020,021,062	TECHNICS	001,033,049,091
	033	MITSUBISHI/MGA	068,069,070,101,102	TEKNIKA	001,025,033
AOC	091	MTC	072	TOSHIBA	006,051
AUDIO DYNAMIC	019,047,092	MULTITECH	044,057,069	TOTEVISION	025.072
BELL & HOWELL (M.WARDS)	048,093	NEC	019.047.052.057.092	TAEKWANG	087
BROKSONIC	092,094,095	OLYMPIC	049.091	UNITECH	072
CANON	001,033,049,091	OPTIMUS	101	VECTOR RESEARCH	019
CAPEHART	011	ORION	103	VIDEO CONCEPTS	019
CITIZEN	050	PANASONIC	001.004.033.049.067.	VIDEOSONIC	072
CRAIG	050,072,096		091,107	WARDS	001,020,031,032,033,
CRITERION	051	PENNEY	019.020.072	- 1711150	043,050,054,072,100,
CURTISMATHES	001,031,032,033,044,	PENTAX	001,020,072		105,106,109
OOTTIOWATTIES	091	PHILCO	001,033,046,049,091,	YAMAHA	019,047,048,052,092,
DAEWOO	006,007,008,009,010,	- 1111200	001,033,046,049,091,	ZENITH	019,047,048,052,092,
DALWOO	011,012,013,014,015,	PHILIPS		ZLINITI	013,041,040,032,032
		FHILIFS	001,030,033,049,050,		
	016,017,018,046,051,	DILOT	,	→ DVD Bra	and Code List
DAVEDON	091	PILOT	025		
DAYTRON	011	PIONEER	049		
DBX	019,047,052,092	PORTLAND	011	Brand	Code Number
EMERSON	025,031,032,044,046,	QUASAR	001,033,049,067,091,		
	094,095,097,098,099		107,108	DENON	003,032
FISHER	009, 048, 053, 054, 055,	RICO	036	DOONOON	019
	100	RCA/PROSCAN	001,020,021,031,032,	DMTECH	017
FUNAI	044		033,049,051,062,066,	FISHER	002
GENERAL ELECTRIC (GE)	001,031,032,033,056,		070,091,104	GE	006
	091	REALISTIC	001,009,025,033,	HARMAN/KARDON	012
GOVIDEO	059,060,061		044,048,054,091,	JVC	010,013
HARMAN KARDON	019		101,105	KENWOOD	008
HITACHI	020,021,049,054,062,	SAMSUNG	000,006,031,032,057,	LG	001
	100		058,071,072,073,074,	MAGNAVOX	004
HQ	051		075,076,077,078,079,	MITSUBISHI	005,016
INSTANT REPLAY	001,033,049,091		080.081	ONKYO	004.014
JCL	001,033	SANYO	008,009,046,048,050,	OPTIMUS	011
JCP	025		054,058,093,100	PANASONIC	021
JC PENNY	047,048,052,062,091,	SANSUI	092	PROSCAN	006
	092	SCOTT	006.051.054.057.069.	PHILIPS	004,023
JVC	001,033,047,052,063,		070,100,101	PIONEER	007.011.022.025
	064,065,092	SEARS	020,021,025	RCA	006
KENWOOD	047,050,052,092	SHARP	043,105,106	SAMSUNG	000.027
LG (GOLDSTAR)	019,020,021,022,023,	SINGER	096	SANYO	000,027
(GOLDOTAII)	024,025,026,027,028,	SIGNATURE2000 (MWARDS)	043,044,054,100,106	SONY	015, 020
	029,030,050	SHINTOM	096	THETADIGITAL	015, 020
LXI(SEARS)				TOSHIBA	
LAI (SEARS)		SONT	034,035,036,037,038,	YAMAHA	004, 018
MACINI	053,054,055,062,100	-	039,040,041,042,082,		009, 033
MAGNAYOY	072	OTO	083,084,085,086	ZENITH	004, 024
MAGNAVOX	001,031,032,033,049,	STS	020	TAEGWANG	026
	066,067,091	SYLVANIA	001,033,044,049,066,	PS2	028
MARANTZ	001,019,033,047,052,		091	X-BOX	029
	092,110	SYMPHONIC	044	APEX	030
MARTA	025,050	TANDY	009	MARANTZ	031



Before calling for service

Symptom	Check	Remedy
The unit will not turn on.	• Is the power cord plugged into the outlet?	Connect the power plug to the outlet.
A function does not work when the button is pressed.	Is there static electricity in the air?	Disconnect the power plug and connect it again.
Sound is not produced.	 Are the speakers and external components connected properly? Is the Mute function on? Is the volume set to minimum? Is the speaker setup set incorrectly to 	 Connect them correctly. Press Mute button to cancel the function. Adjust the volume. Refer to pages 20~21 to select LARGE,
Picture does not appear on a TV when the function is selected.	NONE? • Is the external component connected properly?	SMALL or YES. Connect it correctly.
Remote controller does not work.	 Are the batteries drained? Is the distance between remote control and main unit too great? 	Replace with new batteries.Operate at close distance.
The sound from the left/right channels is reversed.	 Are the left/right speaker or left/right input/output cables connected properly? 	Check the left/right channel and connect it/them correctly.
Can't receive radio broadcasts.	Is FM antenna connected properly?	 Connect the antenna correctly. If the input strength of antenna signal is weak, install the FM antenna in a place with good reception.
There is no sound from surround speakers.	 Is the surround speaker connected properly? Is SURR (surround) incorrectly set to NONE in speaker setup? Is surround mode set to stereo? 	 Refer to pages 10~11 to connect them properly. Refer to pages 20~21 to select LARGE or SMALL. Refer to pages 29~35 to select proper Surround Mode.
There is no sound from center speaker	 Is the center speaker connected properly? Is CEN (center) incorrectly selected to NONE in speaker setup? Is the surround mode selected to stereo? 	 Refer to pages 10~11 to connect it proper Refer to pages 20~21 to select LARGE or SMALL. Refer to pages 29~35 to select other Surround Modes.



Before calling for service (cont'd)



Specifications

Symptom	Check	Remedy
There is no sound from surround back speakers	 Are the surround back speakers connected properly? Is the S.BACK(Surround Back) selected to NONE in Speaker Setup? Is Surround Mode set to EX/ES? 	 Refer to pages 10~11 to connect it properly. Refer to pages 20~21 to select LARGE or SMALL. Refer to page 32 to set Surround Mode to EX/ES.
Can't select EX/ES mode.	Is S.BACK(Surround Back) selected to NONE in Speaker Setup? Is the input signal selected properly?	Refer to pages 20~21 to select LARGE or SMALL. Use 7.1 channel external component.
Can't select Dolby Pro Logic IIx mode.	Is the input signal selected properly?	Select 2 channel Dolby Digital, PCM, and Analog input signal.
Can't select NEO:6 mode.	Is the input signal selected properly?	Use PCM and Analog input signal.
There is no sound when playing a DTS encoded DVD.	Is Digital input selected?	Check whether the DVD player is properly connected and refer to page 23 to select the digital input.

Product protection function

Heat protection

- The protection function will come on if the main unit or power transformer overheats.
- "PROTECTION" will appear in the display .

This function will come on :

- If speaker terminal is shorted
- If speaker cable is shorted

If there is no problem when you turn the unit on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.



 If PROTECTION appears on the display, check whether the speaker terminal is shorted and then turn on the unit

	Power supply		120V, 60 Hz	
-	Standby power consump	ation	0.9W	
-	Stariuby power consump	Main unit	100W	
	Power consumption	Subwoofer	10011	
GENERAL	Weight	Subwoolei	90W	
-			12.7 lbs	
-	Dimensions (W x H x D)		16.9 x 5.7 x 13.7 inches	
-	Operating temperature ra		41°F~+95°F	
	Operating humidity range	9	10%~75%	
	Frequency response		87.5~108.0MHz	
	Usable sensitivity		12dBf	
FM TUNER	S/N ratio		MONO/STEREO 55/55dB	
	Distortion		MONO/STEREO 0.3/0.8%	
	Stereo separation		30dB	
	Tuner output level		1kHz, 75kHz Dev	
	Rated output		20Hz~20kHz/THD = 10%	
	Front speaker(left+right)		4 Ω 100W/CH	
	Center speaker		4 Ω 100W/CH	
AMPLIFIER	Surround speaker(left+ri	ght)	4 Ω 100W/CH	
AIVII LII ILII	Surround back		4 Ω 100W/CH	
	Input sensitivity/impedance		450mV/47kΩ	
	S/N ratio (analog input)		80dB	
	Separation (1kHz)		60dB	
FREQUENCY	Analog input		20Hz~20kHz(±3dB)	
RESPONSE	Digital input/96kHz PCM		20Hz ~44kHz(±3dB)	
	TV format		NTSC/PAL	
VIDEO	Input level/impedance		1Vp-p/75 Ω	
VIDEO	Output level/impedance		1Vp-p/75 Ω	
OUTPUT	Video frequency respons	Se	5Hz to 10kHz(-3dB)	
	S/N ratio		60dB	

-	Speaker system	Front / Surround	Center	Subwoofer speaker
S P	Impedance	4Ω x 4	4Ω	8Ω
E	Rated input	100W	100W	150W
Ĕ	Maximum input	200W	200W	300W
R	Dimensions (W x H x D)	3.9 x 10.6 x 3.8 inches	11.8 x 3.5 x 3.7 inches	12 x 15.6 x 17.4 inches
S	Weight	3.1 lbs / 2.6 lbs	3.1 lbs	31.7 lbs

[★] S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES (Audio Engineering Society) guidelines.



Samsung Limited Warranty

Samsung Electronics Canada Inc.(SECA), warrants that this product is free from defective material and workmanship.

SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or FM TUNER defective material SECA will repair or replace the product at its option.

All warranty repairs must be performed by a SECA authorized service centre. (The name and address of the location nearest you can be obtained by calling toll free 1-800-726-7864 or visiting our web site at www.samsung.ca)

Labour	Parts
one (1)year (carry-in)	one (1)year

On carry-in models,transportation to and from the service centre is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to the authorized service centre at the time service is requested.

Exclusions

This warranty does not cover damage due to accident, fire flood and/or other acts of God; misuse, incorrect line voltage,improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping. Exterior and interior finish, lamps and glass are not covered under this warranty. Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty.

This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased and used in Canada.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Customer Care Center 🖀	Web Site
	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
North America	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421 , 4004-0000	www.samsung.com
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	www.samsung.com/ci
	HONDURAS	800-7919267	
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
Europe	BELGIUM	0032 (0)2 201 24 18	www.samsung.com/be
	CZECH REPUBLIC	844 000 844 Distributor pro Českou republiku: Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4	www.samsung.com/cz
	DENMARK	70 70 19 70	www.samsung.com/dk
	FINLAND	030-6227 515	www.samsung.com/fi
		3260 SAMSUNG (€ 0,15/Min),	
	FRANCE	08 25 08 65 65 (€ 0,15/Min)	www.samsung.com
	GERMANY	01805 - SAMSUNG(726-7864) (€ 0,14/Min)	www.samsung.com
	HUNGARY	06-80-SAMSUNG(726-7864)	www.samsung.com
	ITALIA	800-SAMSUNG(726-7864)	www.samsung.com
	LUXEMBURG	0035 (0)2 261 03 710	www.samsung.com/be
	NETHERLANDS	0900-SAMSUNG(726-7864) (€ 0,10/Min)	www.samsung.com/nl
	NORWAY	815-56 480	www.samsung.com/no
	POLAND	0 801 801 881 , 022-607-93-33	www.samsung.com/pl
	PORTUGAL	80820-SAMSUNG(726-7864)	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	SPAIN	902 10 11 30	www.samsung.com
	SWEDEN	0771-400 200	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com
	EIRE	0818 717 100	www.samsung.com/ie
	AUSTRIA	0800-SAMSUNG(726-7864)	www.samsung.com/at
	SWITZERLAND	0800-SAMSUNG(726-7864)	www.samsung.com/ch
CIS			-
	RUSSIA	8-800-555-55-55	www.samsung.com
	KAZAHSTAN	8-10-800-500-55-500	www.samsung.kz
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.uz
	KYRGYZSTAN	00-800-500-55-500	
	TADJIKISTAN	8-10-800-500-55-500	
	UKRAINE	8-800-502-0000	www.samsung.com
	LITHUANIA	8-800-77777	www.samsung.lt
	LATVIA	800-7267	www.samsung.com/lv
	ESTONIA	800-7267	www.samsung.ee
	AUSTRALIA	1300 362 603	
			www.samsung.com
	NEW ZEALAND	0800SAMSUNG(726-7864)	www.samsung.com/nz
	CHINA	800-810-5858 , 010-6475 1880	www.samsung.com
	HONG KONG	3698-4698	www.samsung.com/hk
Asia Pacific	INDIA	3030 8282 , 1800 110011	www.samsung.com
	INDONESIA	0800-112-8888	www.samsung.com
	JAPAN	0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
	PHILIPPINES	1800-10-SAMSUNG(726-7864)	www.samsung.com/ph
	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com
	THAILAND	1800-29-3232 , 02-689-3232	www.samsung.com
	TAIWAN	0800-329-999	www.samsung.com/tw
	VIETNAM	1 800 588 889	www.samsung.com
Middle East & Africa	TURKEY	444 77 11	www.samsung.com
	SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com
	U.A.E	800-SAMSUNG (726-7864), 8000-4726	www.samsung.com